

Grade: 07

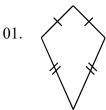
Zonal Education Office - Vadamaradchy Second Term Examination - 2019

Mathematics Time: 2.00 Hrs

Index No:

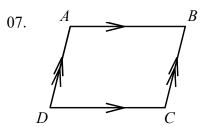
Part-I

• Answer all questions on paper itself.

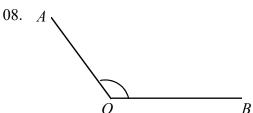


Write the number of axes of symmetry of the given figure?

- 02. $A = \{ \text{ digits of the number 1000} \}$ Write down the set A by listing its elements.
- 03. Simplify. $12 + 7 \times 9$
- 4. Sugges a digit suitable for empty box. 04. 9 divides the number 71
- 05. Write five to the power two in index notation and find the value of it.
- 06. (1) To which decate does 2019 belong?
 - (2) To which a century does 2019 belong?



Name two pairs of parallel lines.



Measure and write the magnitude of \hat{AOB}

- 09. What is the largest unit fraction?
- 10. Express $1\frac{2}{5}$ as a decimal number?
- 11. Three times of a certain number *x* is subtracted from 10, Construct an algebraic expression to represent this information?
- 12. Write 1.05g in grames and milligrams.
- 13. What is the name of a quadrilateral with xeactly one pair of parallel sides.
- 14. Solve. 3x-2=13
- 15. Arrange in assending order. 80m, 0.1km, 95cm
- 16. O
- Centre of a given circle is O. Name the radius and diameter of the circle.
- 17. The volume of the Cool drink in a bottle is 650ml. Give the total amount of cool drink in 10 such bottles.
- 18. Find the largest number which divides 18, 12 and 30 without remainder.
- 19.

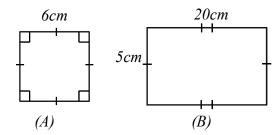
Find the shaded part as a frqaction of whole figrue.

20. Write all prime factors of 36.

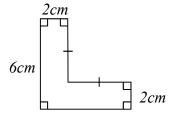
Part - II

Answer first question and another four questinos.

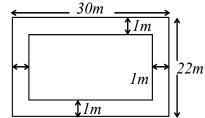
01. (a) i) Find the area of the following figures A and B



- ii) Find the perimeter of the above figures A and B.
- iii) Find the side of a squre whose area is equal to the area of the figure (B)
- (b) 1) Find the area of the given compound figure.



- 2) The rectangular swimming pool is located in the middle of a rectangular land of 30m long and 22m width as shown in the figure. The grass is grown around a metre wide.
 - i) Find the total area of the land
 - ii) Find the length and width of the swimming pool
 - iii) Find the area of swimming pool
 - *iv*) Find the area of grass land.



$$(2+2+2+3+2+2+1=16 \text{ marks})$$

- 02. a) i) Express $\frac{19}{4}$ as a mixed number.
 - ii) Express $2\frac{3}{7}$ as a improper fraction.
 - *iii)* Fill in the blanks. $\frac{6}{18} = \frac{5}{| | |}$
 - b) Simplify

(i)
$$\frac{2}{7} + \frac{1}{14}$$

(ii)
$$2\frac{3}{5}-1\frac{2}{5}$$

c) Fill in the blanks with the suitable symbol from >, < and =.

(i)
$$\frac{8}{9}$$
 $\boxed{\frac{2}{5}}$

(ii)
$$3\frac{1}{7}$$
 $\boxed{}$ $3\frac{11}{12}$

$$(1+1+2+2+3+1+1 = 11 \text{ marks})$$

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03	α	Express	each	of the	talla	X/1no	tractions	26 2	decimal	number
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(i)
$$\frac{38}{100}$$

(ii)
$$\frac{1}{8}$$

(i)
$$(-8.3) + (+2.5) + (+6.1)$$

(ii)
$$5 - 0.4$$

(iii)
$$0.073 \times 100$$

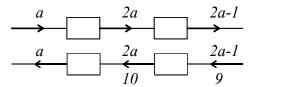
(iv)
$$6.24 \div 3$$

c) Compare the following decimal numbers using >, <, or =.

d) Represent 4.032 on an abacus.

$$(1+1+1+1+1+2+1+1+2=11 \text{ marks})$$

04. a) (i) Complete the flow diagram to solve the equation 2a - 1 = 9.



(ii) Find the value of each of the algebraic expressions given below when a = 2 and b = 3 (1) a + b - 2

(2)
$$\frac{3b-a+5}{4}$$

- b) Kumar took 6 string hoppers at Rs.x per each and curry worth Rs.25 for break fast.
 - (i) Write an algebraic expression for the total amount spent by Kumar.
 - (ii) If the cost of breakfast is Rs.115, construct an algibraic equation.
 - (iii) Find the cost of a string hopper by solving this equation.

$$(2+1+2+2+2+2=11 \text{ marks})$$

- 05. (i) Draw a straigh line segment of 5cm long name it AB.
 - (ii) Draw two circles of radius 4cm with centres A, B
 - (iii) Name the intersection points of the two circles as x and y.
 - (iv) Write the name of the figure obtained by joining the point in the order A, X, B, Y and A.
 - (v) What is the relationship between the lengths AX and by. What is the special name of AX and BY.

$$(2+2+2+3+2 = 11 \text{ marks})$$

- 06. a) In a box of 500g weight, there are 3 milk packets each weight 400g, 4 sugar bags each wighs 400g and 5 tea packets each weight 150g.
 - (i) Find the wight of 3 milk packets
 - (ii) Find the total weight of the box.
 - b) The length of a rectangle is 5cm more than the breadth. If the breadth is 3cm, find the perimeter of the rectangle.
 - (c) Simplify

(ii)
$$12cm \ 8mm \times 5$$

$$(2+2+2+2+3 = 11 \text{ marks})$$